

What is claimed is:

1. A method for degrading polylactide resins, wherein the polylactide resins are degraded by an actinomycete belonging to a genus selected from the group consisting of *Saccharothrix*, *Streptoalloteichus*, *Kibdelosporangium*, *Lentzea*, *Actinokineospora*, *Saccharomonospora*, *Saccharopolyspora*, and *Actinopolyspora*.

2. The method for degrading polylactide resins according to claim 1, wherein the actinomycete belongs to the genus *Saccharothrix*.

3. The method for degrading polylactide resins according to claim 2, wherein the actinomycete is at least one bacterium selected from the group consisting of *Saccharothrix flava*, *Saccharothrix coeruleofusca*, *Saccharothrix longispora*, *Saccharothrix australiensis*, *Saccharothrix mutabilis* subsp. *mutabilis*, *Saccharothrix aerocolonigenes* subsp. *aerocolonigenes*, *Saccharothrix syringae*, *Saccharothrix coeruleoviolacea*, *Saccharothrix cryophilis*, *Saccharothrix espanaensis*, *Saccharothrix texasensis*, and *Saccharothrix waywayandensis*.

4. The method for degrading polylactide resins according to claim 1, wherein the actinomycete belongs to the genus *Streptoalloteichus*.

5. The method for degrading polylactide resins according to claim 4, wherein the actinomycete is *Streptoalloteichus hindustanus*.

6. The method for degrading polylactide resins according to claim 1, wherein the actinomycete belongs to the genus *Kibdelosporangium*.

7. The method for degrading polylactide resins according to claim 6, wherein the actinomycete is *Kibdelosporangium aridum*.

8. The method for degrading polylactide resins according to claim 1, wherein the actinomycete belongs to the genus *Lentzea*.

9. The method for degrading polylactide resins according to claim 8 wherein the actinomycetes is *Lentzea albidocapillata*.

10. The method for degrading polylactide resins according to claim 1, wherein the actinomycete belongs to the genus *Actinokineospora*.

11. The method for degrading polylactide resins according to claim 10, wherein the actinomycete is *Actinokineospora riparia*.

12. The method for degrading polylactide resins according to claim 1, wherein the actinomycete belongs to the genus *Saccharomonospora*.

13. The method for degrading polylactide resins according to claim 12, wherein the actinomycete is *Saccharomonospora azurea*.

14. The method for degrading polylactide resins according to claim 1, wherein the actinomycete belongs to the genus *Saccharopolyspora*.

15. The method for degrading polylactide resins according to claim 14, wherein the actinomycete is *Saccharopolyspora erythraea* or *Saccharopolyspora hordei*.

16. The method for degrading polylactide resins according to claim 1, wherein the actinomycete belongs to the genus *Actinopolyspora*.

17. The method for degrading polylactide resins according to claim 16, wherein the actinomycete is *Actinopolyspora halophila* or *Actinopolyspora mortivallis*.

18. A preparation in the form of a liquid, powder, or solid for degrading polylactide resins, wherein the preparation contains at least one actinomycete selected from the group consisting of *Saccharothrix flava*, *Saccharothrix coeruleofusca*, *Saccharothrix longispora*, *Saccharothrix australiensis*, *Saccharothrix mutabilis* subsp. *mutabilis*, *Saccharothrix aerocolonigenes* subsp. *aerocolonigenes*, *Saccharothrix syringae*, *Saccharothrix coeruleoviolacea*, *Saccharothrix cryophilis*, *Saccharothrix espanaensis*, *Saccharothrix texasensis*, *Saccharothrix waywayandensis*, *Streptoalloteichus hindustanus*, *Kibdelosporangium aridum*, *Lentzea albidocapillata*, *Actinokineospora riparia*, *Saccharomonospora azurea*, *Saccharopolyspora erythraea*, *Saccharopolyspora hordei*, *Actinopolyspora halophila*, and *Actinopolyspora mortivallis*.